

Appl. No. 10/007,270
Amdt. dated December 22, 2003
Reply to Office Action of October 21, 2003

PATENT

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (currently amended) An isolated or recombinant polynucleotide comprising a nucleotide sequence or its complement, wherein said nucleotide sequence hybridizes under stringent conditions to to:

- (a) at least 540 contiguous nucleotide residues of SEQ ID NO: 1, 3, 5, or 27,
27;
- (b) ~~at least 216 contiguous nucleotide residues of SEQ ID NO: 16, 18, or 20;~~
~~or~~
- (c) ~~at least 100 contiguous nucleotide residues of SEQ ID NO: 8, 10, 12, 14,~~
~~23, or 25.~~

2. (currently amended) An isolated or recombinant polynucleotide comprising a nucleotide sequence or its complement, wherein said nucleotide sequence comprises comprises:

- (a) at least 540 contiguous nucleotide residues of SEQ ID NO: 1, 3, 5, or 27,
27;
- (b) ~~at least 216 contiguous nucleotide residues of SEQ ID NO: 16, 18, or 20;~~
~~or~~
- (c) ~~at least 100 contiguous nucleotide residues of SEQ ID NO: 8, 10, 12, 14,~~
~~23, or 25.~~

3. (currently amended) The isolated or recombinant polynucleotide of claim 2 comprising the sequence set forth in any one of SEQ ID NOs: 1, 3, 5, ~~8, 10, 12, 14, 16, 18, 20, 23, 25~~, and 27.

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4. (currently amended) An isolated or recombinant polynucleotide comprising a nucleotide sequence or its complement, wherein said nucleotide sequence encodes a polypeptide comprising comprising:

- (a) at least 180 contiguous amino acid residues of SEQ ID NO: 2, 4, 6, or 28,
~~28~~;
- (b) ~~at least 72 contiguous amino acid residues of SEQ ID NO: 17, 19, or 21;~~
or
- (c) ~~at least 33 contiguous amino acid residues of SEQ ID NO: 9, 11, 13, 15,~~
~~24, or 26.~~

5. (currently amended) The isolated or recombinant polynucleotide of claim 4, comprising a nucleotide sequence encoding the amino acid sequence of SEQ ID NO: 2, 4, 6, 9, 11, 13, 15, 17, 19, 21, 24, 26, or 28.

6-9. (canceled)

10. (currently amended) A vector comprising a promoter of an IPMC gene operatively linked to the polynucleotide of claim 1.

11. (currently amended) The vector of claim 10, wherein said IPMC gene is the IPM-200 gene or the IPM-150 gene further comprising a promoter that is operably linked to the polynucleotide.

12-20. (canceled)